

PATENT

Sheet 1 of 3

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 19338DA	SERIAL NO. 08/554,424
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) LEONARDUS VAN DER PLOEG AND JEFFEREY W. WARMKE	
				FILING DATE 11/6/95	GROUP ART UNIT 1816
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
M-TL 11/11/95	A	Hall and Kasbekar, Drosophila Sodium Channel Mutations Affect Pyrethroid Sensitivity, University of New York at Buffalo, p. 99-114.			
	B	Noda, Masaharu et al., Existence of distinct sodium channel messenger RNAs in rat brain, Nature, Vol. 320, p. 188-192 (1986).			
	C	Liman, E., et al., Subunit Stoichiometry of a Mammalian K ⁺ Channel Determined by Construction of Multimeric cDNAs, Neuron, Vol. 9, p. 861-871 (1992).			
	D	Jackson, F., et al., The tip-E Mutation of Drosophila Decreases Saxitoxin Binding and Interacts with Other Mutations Affecting Nerve Membrane Excitability, Journ. of Neurogenetics, 3, p. 1-17 (1986).			
	E	Taylor, Martin F. J. et al., Linkage of Pyrethroid Insecticide Resistance to a Sodium Channel Locus in the Tobacco Budworm, Insect Biochem. Molec. Biol., Vol. 23, No. 7, p. 763-775, (1993).			
	F	Knipple, D. C., et al., Tight genetic linkage between the kdr insecticide resistance trait and a voltage-sensitive sodium channel gene in the house fly, Proc. Natl. Acad. Sci., Vol. 91, p. 2483-2487 (1994).			
	G	Williamson, M., et al., Knockdown resistance (kdr) to DDT and pyrethroid insecticides maps to a sodium channel gene locus in the housefly (Musca domestica), Mol. Gen. Genet. 240: p. 17-22 (1993).			
	H	Hall, L.M. et al., Molecular and genetic analysis of tip-E: a mutation affecting sodium channels in Drosophila, 35th Annual Drosophila Res. Conf., Program & Absts. Vol, p. 77. (1994).			
	I	Hall & Feng, Abstracts of papers presented at the 48th Annual mtg of the society of general physiologists, Marine Biological Lab, The tip-E Locus Defines a Novel Membrane Protein Required During Development to Rescue Adult Paralysis, p. 11a, (1994).			
	J	O'Dowd and Aldrich, Voltage-Clamp Analysis of Sodium Channels in Wild-type and Mutant Drosophila Neurons, The Journal of Neuroscience, 8 (10), p. 3633-3643 (1988).			
	K	Barry Ganetzky, Neurogenetic Analysis of Drosophila Mutations Affecting Sodium Channels: Synergistic Effects on Viability and Nerve Conduction in Double Mutants Involving tip-E, Journal of Neurogenetics, 3, p. 19-31 (1986).			
L	Thackeray and Ganetzky, Developmentally Regulated Alternative Splicing Generates a Complex Array of Drosophila para Sodium Channel Isoforms, The Journal of Neuroscience, 14 (5), p. 2569-2578 (1994).				
M	Loughney, K., et al., Molecular Analysis of the para Locus, a Sodium Channel Gene in Drosophila, Cell, Vol. 58, p. 1143-1154 (1989).				
EXAMINER Mark T. Whit		DATE CONSIDERED 1-9797			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					

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M.T.C.	N	Ramaswami and Tanouye, Two sodium-channel genes in Drosophila: Implications for channel diversity, Proc. Natl. Acad. Sci., Vol. 86, p. 2079-2082 (1989).			
	O	Salkoff, L., et al., Genomic Organization and Deduced Amino Acid Sequence of a Putative Sodium Channel Gene in Drosophila, Science, Vol. 237, p.744-749 (1987).			
	P	Gordon, D., et al., Biochemical Characterization of Insect Neuronal Sodium Channels, Archives of Insect Biochemistry and Physiology 22: p. 41-53 (1993).			
	Q	William A. Catterall, Cellular and Molecular Biology of Voltage-Gated Sodium Channels, Physiological Reviews, Vol. 72, No. 4 (Suppl.) p. S15-S48 (1992).			
	R	Thummel, C. et al., Vectors for Drosophila P-element-mediated transformation and tissue culture transfection, Gene, 74, p. 445-456 (1988).			
	S	Bunch, T., et al., Characterization and use of the Drosophila metallothionein promoter in cultured Drosophila melanogaster cells, Nucleic Acids Research, Vol. 16, No. 3, p. 1043-1059 (1988).			
	T	Noda, M., et al., Primary Structure of Electrophorus Electricus Sodium Channel Deduced from cDNA Sequence, Nature, Vol., 312, 8, p. 121-127 (1984).			
	U	Stevens, Charles, And now the sodium channel, Nature, Vol. 312, p.98-99 (1984).			
	V	Casadei et al "Monoclonal antibodies against the voltage sensitive Na channel from mammalian skeletal muscle": Proceedings fo the Nat'l Acad. of Sci. USA, Vol. 81, 10/84 pgs 6227-6231			
	W	Dascal et al. "Expression and Modulation of Voltage-Gated Calcium Channels After RNA Injection in Xenopus Oocytes", Science, Vol. 231 pp 1147-1150 (1988)			
	V	X	Noda et al. "Expression of functional sodium channels from cloned cDNA" Nature, Vol. 322, pp 868-828 (1986)		
Y		Schreibmayer et al. "Mechanism of modulation of single sodium channels from skeletal muscle by the beta-1 subunit from rat brain", Euro.Jour. Phys. Vol. 426, No.3-4 pp 360-362 (1994)			
Z		Tomaselli et al. "Sodium Channels from Human Brain RNA Expressed in Xenopus Oocytes". Jour. of Clinical Investigation, Vo. 83, No. 5, pp 1724-1732 (1989)			
EXAMINER M.T. W.M.			DATE CONSIDERED 1-17-97		
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APPLICANT(S)

LEONARDUS VAN DER PLOEG AND JEFFREY W. WARMKE

FILING DATE

Nov 6, 1995

GROUP ART UNIT

1816

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MTL	3,898,339	8/5/75	ADAMS ET AL.			
MTL	4,536,591	8/20/85	PLUMMER ET AL.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	Reinhardt-Maelicke et al. "Application of an ectopic expression system for the selection of
		protein-isoform-specific antibodies" Euro. Jour. of Biochem., Vol. 216, No. 3, pp 871-877 (1993)

EXAMINER

M.T. Lull

DATE CONSIDERED

1-1792

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